

MODULAR PORTABLE POWER SUPPLY

CAPACITY MODEL

6 kWh

This series features a compact structure, an integrated battery system, an inverter, and a centralized control unit with high integration. Combined with a modular host and battery design, it enables fast battery replacement, is lightweight and portable, and supports flexible operation. It is suitable for emergency power supply outdoor work, construction sites, and equipment rental, among other mobile power supply scenarios.

DETAILED SPECIFICATIONS

Model	EPPA6000 (6kWh) PLUS		EPPA6000 (6kWh)	
Housing Material	Aluminum+Steel Plate. Corrosion-resistant Coating			
Battery	3C Charge/Discharge Semi-Solid-State Lithium Battery 5920Wh (No Fire Under Nail Penetration / Crush Test)		1C Charge/Discharge Semi-Solid-State Lithium Battery 6028Wh (No Fire Under Nail Penetration / Crush Test)	
BMS	Active Balancing BMS			
Charging	Built-in Charger, Fully Charged in 2.5 Hours			
AC Input	90-264VAC 47-63HZ Efficiency 92%			
AC Rated Power	7000W		4500W	
AC Peak Power	15kW		10kW	
AC Output Frequency	50Hz/60Hz Switching, Automatically Adapts to Grid Power Frequency			
AC Output Ports	European Standard Socket ×2 + Industrial Socket ×1			
Supports Welding Machines	2.5 / 3.2 / 4.0 mm Welding Rods			
LED Display	LED Modular Display			
Remote Monitoring	4G/GPS Module Remote Monitoring/Control			
Standby Mode	Auto Shutdown After 4 Hours of No-Load Output			
Cooling System	Forced-Air Cooling System			
Protections	Overvoltage/Undervoltage/Overcurrent/Overload/ Short Circuit /Overtemperature			
Reliability	AC Short Circuit / Overload / Overtemperature Protection with Buzzer Alarm, DC/BMS Software Protection, Prevents Equipment Damage			
Charging Temperature	Normal Charging at -30° C		Below 0° C, the Battery Pack Automatically Preheats Before Normal Charging	
Discharging Temperature	-30°C to 60°C Humidity 85%			
Storage Temperature	-20°C~45°C			
Protection Rating	IP 53			
Dimensions (L × W × H, mm)	490X380X540		490X380X540	
Weight (kg)	65		65	



WORKSITE EQUIPMENT USAGE TIME

Equipment	Rated Power (W)	6kWh Operating Time
Welder (2.5mm Electrode)	1500	140pcs
Welder (3.2 mm Electrode))	2600	100pcs
Welder 4.0(mm Electrode))	3500	70pcs
Air Compressor (Small)	1500	8 hours
Demolition Hammer	1500	8 hours
Angle Grinder	800	15 hours

*In actual use, most construction equipment does not operate continuously at full load, but works intermittently. Therefore, we use a 50% load factor (i.e., the average power consumption is half of the rated power) for a more realistic estimation.

DAILY APPLIANCE USAGE TIME

Equipment	Rated Power (W)	6kWh Operating Time/H
Induction Cooker	1500	4
Projector	100	60
Electric Kettle	1000	6
Laptop	60	100
Mobile Phone	5	200

CAPACITY MODEL

12 kWh

This series features a compact structure with a highly integrated battery system, inverter, and control unit. It also supports a separate main unit and battery pack design for quick battery replacement, combining portability, practicality, and flexible runtime. It is suitable for various mobile power supply applications such as emergency backup power, outdoor operations, construction sites, and equipment rental.



DETAILED SPECIFICATIONS

Model	EPPA12000 (12kWh)
Houing Material	Aluminuom+Stel Pate.
Battery	1C Charge/Discharge Semi-Solid-State Lithium Battery 12058Wh (No Fire Under Nail Penetration / Crush Test)
BMS	Active Balancing BMS
Charging	Built-in Charger, Fully Charged in 2.5 Hours
AC Input	90-264VAC 47-63HZ Efcieny 92%
AC Rated Power	6000W
AC Peak Power	12kW
AC Output Fecueny	50Hz/60Hz Switching, Automatically Adapts to Grid Power Frequency
AC Outpu Ports	European Standard Socket ×2 + Industrial Socket ×1
Supports Welding Machines	2.5 / 3.2 / 4.0 mm Welding Rods
LED Display	LED Modular Display
Remote Monitoing	4G/GPS Module Remote Monitorng/Control
Standby Mode	Auto Shutdown After 4 Hours of No-Load Output
Coling System	Forced-Air Cooling System
Protections	Overvoltage/Undervoltage/Overcurrent/Overload/ Short Cireuit /Overtemperture
Reliability	AC Short Circuit / Overload / Overtemperature Protection with Buzzer Alarm, DC/BMS Software Protection, Prevents Equipment Damage
CharghgTemperature	Below 0° C, the Battery Pack Automatically Preheats Before Normal Charging
Discharghg Temptrre	-30°C to 60C Humiditys 85%
Storage Temperature	-20°C~45°C
Protection Rating	IP 53
Dimensions (L × W × H, mm)	720X480X610
Weight (kg)	120

WORKSITE EQUIPMENT USAGE TIME

Equipment	Rated Power (W)	12kWh Operating Time
Welder (2.5mm	1500	280pcs
Electrode)	2600	200pcs
Welder (3.2 mm	3500	140pcs
Electrode))	1500	16 hours
Welder 4.0(mm	1500	16 hours
Electrode))	800	30 hours

*In actual use, most construction equipment does not operate continuously at full load, but operates intermittently. Therefore, we use a 50% load factor (i.e., the average power consumption is half of the rated power) for a more realistic estimation.

DAILY APPLIANCE USAGE TIME

Equipment	Rated Power (W)	kWh Operating Time/H
Induction Cooker	1500	8
Projector	100	120
Electric Kettle	1000	12
Laptop	60	200
Mobile Phone	5	400